



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

10/679,062

Source:

B.P.C.

Date Processed by STIC:

10-24-03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/2003):  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/2003

## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER: 101679.062

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☒ **Wrapped Nucleics  
Wrapped Aminos** The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 ☐ **Invalid Line Length** The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 ☐ **Misaligned Amino  
Numbering** The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use **space characters**, instead.
- 4 ☐ **Non-ASCII** The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 ☐ **Variable Length** Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 ☐ **PatentIn 2.0  
"bug"** A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s). Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 ☐ **Skipped Sequences  
(OLD RULES)** Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped  
  
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 ☐ **Skipped Sequences  
(NEW RULES)** Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 9 ☐ **Use of n's or Xaa's  
(NEW RULES)** Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 ☐ **Invalid <213>  
Response** Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 ☐ **Use of <220>** Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.  
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 ☐ **PatentIn 2.0  
"bug"** Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 ☐ **Misuse of n/Xaa** "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



II

## RAW SEQUENCE LISTING

DATE: 10/24/2003

PATENT APPLICATION: US/10/679,062

TIME: 15:06:24

Input Set : C:\WINNT\Profiles\guest\Desktop\PTO.LN.txt

Output Set: N:\CRF4\10242003\J679062.raw

3 <110> APPLICANT: Epigenomics AG  
 5 <120> TITLE OF INVENTION: Methods and nucleic acids for the analysis of colon cell  
 6 proliferative disorders.  
 > 8 <140> CURRENT APPLICATION NUMBER: US/10/679,062  
 > 8 <141> CURRENT FILING DATE: 2003-10-03  
 > 0 <130> FILE REFERENCE:  
 > 8 <160> NUMBER OF SEQ ID NOS: 8475

## ORDERED SEQUENCES

10 <210> SEQ ID NO: 1  
 11 <211> LENGTH: 2280  
 12 <212> TYPE: DNA  
 13 <213> ORGANISM: Homo Sapiens  
 15 <400> SEQUENCE: 1  
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 18 60  
 > 19 catgcttaac tgcctcaaaa tcatttttta aataattaca ctgatactat aatagaaatc  
 20 120  
 > 21 atgggtactt attttacatt cagatggaag gcattattgg atatgtatta aaaaaaagac  
 22 180  
 > 23 cccctgaaaa aaataaaata aaataaaaca tcaccatcaa aataaaagaa cccaaaacaa  
 24 240  
 > 25 cccctaaaaa cttccctcaa caaaatacat tgtaaactca taaaatggac tgatgactag  
 26 300  
 > 27 ccatgcaaat gtcctaaata aaacctttac atttttttca cagttaactt atgctctgaa  
 28 360  
 > 29 ctgcctaccg atcacaaata atggcgaaat ggcactttct gattatactg tattttgttt  
 30 420  
 > 31 atagaaagtt tgatacgatg gaacttatca ggtaagaggg tgggtgctgt gaacgagatg  
 32 480  
 > 33 ccgtctccag tcgcgggggc gggcagagtc cctggagcgc gtggattcca tgcgagccat  
 34 540  
 > 35 gcagcacttt ttgttttttg tcagaagtca aagttactta tttacaatac attcatgcct  
 36 600  
 > 37 tcgtgcaact gccatccct gcgtagccaa caggagagcca tcacggggct aatccacagg  
 38 660  
 > 39 ggaaaaatag atatctatct ctctatatag atgtggatat atgtatatat gtatagaacc  
 40 720  
 > 41 gcggcatcca accccacagg ccccggggcc gagggcgagg gcaactgtcag ttcttcacag  
 42 780  
 > 43 agggtcgtgc tgggctttct gtcaaaaggg gctctcagca aagagcgagc tggctgcgct

See item 1  
 on error  
 summary  
 sheet.

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Input Set : C:\WINNT\Profiles\guest\Desktop\PTO.LN.txt

Output Set: N:\CRF4\10242003\J679062.raw

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44 840
> 45 ctcccagctc tccacagtct gctctttgtt tcaaggaggg agctaagtaa ggggtcaggc
46 900
> 47 cctttcgggt gtgcgagctc acagttatct atctacttat gcccatccag gctgatggcg
48 960
> 49 cggggatttg ggtacacgcc cctccagccc ccgggggtgcc tgcgggtgggg aaggatgtat
50 1020
> 51 cgccttccct ctgcctccc ctattggggg tggggtotta gtctgagagc gactgagagc
52 1080
> 53 cacagtcata cactctgttg gcccatctg cgttgtaagg ccattgtgc cagtaggaag
54 1140
> 55 agtcacagac tgtctgtagg gaattaatct cggacgcgga ggagttggca tctcgtctct
56 1200
> 57 tggaccgctt tcggttcctc aggataaaca cgagcatgcc caccacggtg aaggcggagg
58 1260
> 59 tgacaaacac cagcagcagt cccgggacca acaccgagat ggacaccctg ctggtgtcta
60 1320
> 61 ggtaggagtt ggagtgcgtc ccggtctccg ccaaccagct gctgttttta ctgtgcgaag
62 1380
> 63 ttaacgtggg cgagatccta gcgtacagct gagggcagat ctogtcattg gagaggagca
64 1440
> 65 tgaaatcctt tctaaagaag ttcaccggcg tctcacactt gaggtcgtc atcagcactt
66 1500
> 67 cggaacccaa gcgttctgcc cactgcttga aaggcacaat tgtgcaggag cactcccagg
68 1560
> 69 ggtttcctg gaggtctatc tggatgatgg aggttaactg gtccagcacc cctgccaccg
70 1620
> 71 ggaggtacat gaagtaattg ttgtgcaggc tgagtttaga gagcgagacc ccagcgaaca
72 1680
> 73 cgtccacagg cagggacctc agcaggttgt tgttgagaat gaggatcctc agtttgggca
74 1740
> 75 tggcattgaa agtgcctggg aggatgagct ggatagcgtt gtactccacg ttcaggtact
76 1800
> 77 ctaggttttg cagccccgag aatttctccc gggacagcgt gtccaggtaa ttgctatcca
78 1860
> 79 tgtatagcca cctgaggtcc aaaaggttct tgaaagtgtt gttctctaca gtagcgatgt
80 1920
> 81 tattgttgcc cagatccaac agaattgaggt tottgtaatc cacaagtgc gattttcgga
82 1980
> 83 tgctgtggat cttgttatct cgtaggaaaa gctcctgcac gtttagagagc ttgggcttca
84 2040
> 85 aatcagccaa gctgctcacg ttctgttgt tgcagttcat ctttaaaccg gaccctggga
86 2100
> 87 tgtggtcgca gctgcagccc ccagggcagg gtaaacgtgt agctaagggt ttgttctcgg
88 2160
> 89 agctaccctg cgtatcgtct gctgtgggtc tgattttgat ctgccagttg cctgggatct
90 2220
> 91 ttgtacctcc gtttgagca gaccctggtg tggcatgata ctcttgccca tttgtcttga
92 2280

```

Same  
error

## RAW SEQUENCE LISTING

DATE: 10/24/2003

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TIME: 15:06:24

Input Set : C:\WINNT\Profiles\guest\Desktop\PTO.IN.txt

Output Set: N:\CRF4\10242003\J679062.raw

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94 <210> SEQ ID NO: 2
95 <211> LENGTH: 2477
96 <212> TYPE: DNA
97 <213> ORGANISM: Homo Sapiens
99 <400> SEQUENCE: 2
> 101 tggcacagac atggccctta aagccaaaaa ccatgatgga gtgaaggaca gctgtgctca
102 60
> 103 gacctgcgtc ctgtcctctg gaggttgctg tggttctggg gatgagtogg aggtgggcag
104 120
> 105 gcagcgggtct ccggggcctg cagcaggag gccaccacct gcacagcaga acacagcacc
106 180
> 107 attccacagg gagcatcccg gggcgggcag caactctgga ggcacccccg ggaaggagcc
108 240
> 109 aggcattgggg gaggcggagg cgaccccaga agcagaggag ccgctgggga gccacggcct
110 300
> 111 tctgggtgtg gagctgtgga ggatgagtgc caccctccc ttcggggcct tctactctgt
112 360
> 113 agggatccct acgtccagga ccatttgatt gtcaaggtot cggcacccctc gtcaggtcag
114 420
> 115 ctgggggcca agggccctaa ctccgaggac tggggccgcc aacatgggca gcagcacagg
116 480
> 117 aggcgagag gaggtccaca agggctgcac ttccttctctg gctgcagtc acccccccaga
118 540
> 119 gcagggcggg cgtggagcca ctctcaccag tattgttggc cttgagggcc tgggtgggcag
120 600
> 121 tgccgcctgg tgtgggggac agctcctgag caggctgccg cattcctggc actctggtot
122 660
> 123 ccctgggatt ctcagggtggc ccacgctcgg cagtgcctgc cttctgggct ctcagggtctc
124 720
> 125 gtttctgttg cagctcctgc agtgggagca tcgctgagca ctgtccctgg gagaggacga
126 780
> 127 ccccaggctc cacagccaag ctgccctgag gctaagtgtc ccggggccca gggagcccca
128 840
> 129 gcagcagccc cgcacggtca ggcctgggcc acggtgctgc tcagtggtec ctgcgcggtc
130 900
> 131 agcacctgaa tggctgctcg cctggcttgg cgtgccttct cctcccgggc cttcctcctg
132 960
> 133 gctgcctctt tctgctggtg cagggtccaag agggctccct cgctgaccg ctgcgcgtgc
134 1020
> 135 tcctgccaaa gaagccggtg ccattgtggc tttacatctg gaagacggaa tccagaccca
136 1080
> 137 gaccagaggt tccccacaa cgccctggag tcccctagag ttctgtggaat ctcaggggcca
138 1140
> 139 gcaggggaaag tgaaacccca ccaggacctt gaacctgcca tttctctgct ctacagagga
140 1200
> 141 tgagccctac gtcgcaggtg gccaacagtt ctggcggtgg ggagacagct ctgccccac
142 1260
> 143 agaacgtcct cctgagactc tccagcctgg gatggaccca gcaggcgttt cctgacaccc
144 1320

```

Same  
error

## RAW SEQUENCE LISTING

DATE: 10/24/2003

PATENT APPLICATION: US/10/679,062

TIME: 15:06:24

Input Set : C:\WINNT\Profiles\guest\Desktop\PTO.LN.txt

Output Set: N:\CRF4\10242003\J679062.raw

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> 145 aggccctgag gaccgccagt gaggaccacc ctgactgtcc ggggggaccc aggggtcaaga
146 1380
> 147 aggatgctgc acccagagac ggggcccacg agcaatccta ggctttgatt ccacctgtcc
148 1440
> 149 cagaaactca aaccctggg attctgggcc agaccccccg ggggagcatg gagtgtactga
150 1500
> 151 gacgcccaca ctgacctccc gcttggcctg aagcaagtgc tccaggcggg cagctcctgc
152 1560
> 153 tccgcgccgc tgcacctggt gccggtacca gcgctggatg gtgacagtgg cctggttcac
154 1620
> 155 ctggtggata aacctgcccg gagagcagga ctcagggccca agacaggacc agcgccccgg
156 1680
> 157 caggaccag ctggctgctg gtggaaggtc gagccgggga agagagaagc cggcggtctgc
158 1740
> 159 actcaagtag cccttttcac aaggcaggac cagcccacct ggaccatttt cacatggcag
160 1800
> 161 gaccagccgc ctggaccagc tccactaaaa cccaaaacct tcttctggg aaggtgccca
162 1860
> 163 ggggagagga aacgcctacc cacgcaggcc tgtgtggcct tatttacaat tgccaggaag
164 1920
> 165 tgggaagagt tcaaatgccc atgacctggc tacagcgtga atactggatg gcgggaccct
166 1980
> 167 acccacaggc aacaggcccc ggactcaggc cagtgcagac cacaggccgt ggctccacag
168 2040
> 169 agagggtggt cggaacaggc agggctatga gggaacagac tgggtggctgc tggcatctgg
170 2100
> 171 gcggggaagg agctcgaggg aagcctgggtg gtgctgggcc gtttccttat cttggtctgc
172 2160
> 173 tgtgtccaca gacagcacta tacacctggg tggaatctca tggaactgca cacttacaat
174 2220
> 175 gggcaccttc tattgtatac aaattatact aagtaaaaact gattaagcaa aaaaaaaaaat
176 2280
> 177 gcttcacctt ggctctcggg accatgtgtg gattctctca gcaaaggcac taacagagaa
178 2340
> 179 ccagaaactg gtgagcccta gctcgggagc agtctgcccc gggcagaact ggggggcttc
180 2400
> 181 aaggggttgc gggtctctgg tcccccttcc ctogtgccac ccaccgctc tacaggcctg
182 2460
> 183 gtctccctag ccctaac
184 2477
186 <210> SEQ ID NO: 3
187 <211> LENGTH: 3685
188 <212> TYPE: DNA
189 <213> ORGANISM: Homo Sapiens
191 <400> SEQUENCE: 3
> 193 caagcctcct tccccggcgc acaggcacgc agccacaggc caagctgcga cgcgagctcc
194 60
> 195 gcgcgcggga tctccgcaaa aggtccgcc gatgcgttgg gcgggaatcg agcccggtc
196 120

```

same  
error

## RAW SEQUENCE LISTING

DATE: 10/24/2003

PATENT APPLICATION: US/10/679,062

TIME: 15:06:24

Input Set : C:\WINNT\Profiles\guest\Desktop\PTO.LN.txt

Output Set: N:\CRF4\10242003\J679062.raw

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> 197 aactgcttgg aaggcaacta tgctcaccac tataccacca acgcgcgacg ggcggggcag
198 180
> 199 ccccgccgcg ccggcccggg gctcccacca ggcgcgcgac gacgcccggg gcaggccggc
200 240
> 201 cccgacgccc ggtccgtccg ccgcccgcga gctccgcgct gccgcggcct ctccaaaggc
202 300
> 203 cgccccgcgc cccaccggtg caaggccagc gcggctgacc cgttacgccc gcctgcctct
204 360
> 205 gggggcgctc tcgctcactc gccgcctcgg gccccagag cccttcccca acaggtgccc
206 420
> 207 gggggggaaa cgcccgcgcg cggcagggtc cccactcta cgcttccca cgggcgcagg
208 480
> 209 gcccgtgtg tcgcagaaag cctcttccga caaccacttt gagccggcag ctogttgggc
210 540
> 211 gccgtgcagg gccagaggag gcctcccggc tgccgctacc aagccgcgga cgagaagaaa
212 600
> 213 agacaggagg ccaaggaggc ccagaaggcc aaagggccag gcaggccagg ccagagatgg
214 660
> 215 caccctgcga ctagctggag ggcggaggaa ggagaaggag ggcccacagg ctgggtccga
216 720
> 217 ggcggcgggc caaaaagcac ggctgcctcc ccgtcgggga atogaacccc ggtctccgc
218 780
> 219 gtgacaggcg gggatactca ccactatact aacgaggacg acggcgacgg tcgcggggac
220 840
> 221 gccagacccc actccgaccg cggacgccta gccctgcctt gatccctcc ccgaaggca
222 900
> 223 ggggcccggc gcgtgctcgc cttccaccgc ccgcccgcg cccgccacc gccacacgcc
224 960
> 225 acccgtcacc tgccaccgc cccccccac cgttggcacg acctacccc acaccaaca
226 1020
> 227 aagcaccctg cgatcccgtt gggacccgga gccggagccg gaccccgaca ggtaccggag
228 1080
> 229 cggcgtggaa cctccccgcg cgccctgcct gctgtctcca acgcggggat cgcgcgggg
230 1140
> 231 caggaggagg cgcgggcgaa acagtcaggc cgctgctcct aggacgggtt gggcgacgc
232 1200
> 233 cctgcggggt tcggcgagcg gaggcgcggg ggctggggcg tgcccgggcg ggcgcgggc
234 1260
> 235 cgacgcggac cctttgggtc cggggtgggg acgcgggggc gtccacgcca acgcagccg
236 1320
> 237 gctccgttca cttggcgccc gctccccccg cgcggctcgt cggttgcgca ccgaaccag
238 1380
> 239 acaggcgccg gccaaaggcg caggcggttc cgccgggtcc cagccatgcc agcggcgaag
240 1440
> 241 cgccccggcg cgccgtcagg atggccgagc ggtctaaggc gctgcgttca ggtcgcagtc
242 1500
> 243 tccctgggag gcgtgggttc gaatcccact cctgacaagc cgaccttttg gcccgccgc
244 1560
> 245 cggagggcaa cgcccatggc aaccctggag caaccttggc cgcttccctc cttgagccct

```

Same  
error

**RAW SEQUENCE LISTING ERROR SUMMARY**  
PATENT APPLICATION: US/10/679,062DATE: 10/24/2003  
TIME: 15:06:25Input Set : C:\WINNT\Profiles\guest\Desktop\PTO.LN.txt  
Output Set: N:\CRF4\10242003\J679062.raw**pped Sequences (NEW RULES):**uence(s) missing. If intentional, please use the following format for  
h skipped sequence.

0&gt; sequence id number

0&gt; sequence id number

#:11096,11097,11098,11099,11100,11101,11102,11103,11104,11105,11106,11107  
#:11108,11109,11110,11111,11112,11113,11114,11115,11116,11117,11118,11119  
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#:12719,12720,12721,12722,12723,12724,12725,12726,12727,12728,12729,12730



**RAW SEQUENCE LISTING ERROR SUMMARY**  
PATENT APPLICATION: **US/10/679,062**DATE: 10/24/2003  
TIME: 15:06:25Input Set : C:\WINNT\Profiles\guest\Desktop\PTO.LN.txt  
Output Set: N:\CRF4\10242003\J679062.raw

#:12731,12732,12733,12734,12735,12736,12737,12738,12739,12740,12741,12742  
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## VERIFICATION SUMMARY

DATE: 10/24/2003

PATENT APPLICATION: US/10/679,062

TIME: 15:06:25

Input Set : C:\WINNT\Profiles\guest\Desktop\PTO.LN.txt

Output Set: N:\CRF4\10242003\J679062.raw

M:270 C: Current Application Number differs, Replaced Current Application No  
 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
 M:201 W: Mandatory field data missing, <130> FILE REFERENCE  
 7 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:1  
 54 Repeated in SeqNo=1  
 01 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:2  
 54 Repeated in SeqNo=2  
 93 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:3  
 54 Repeated in SeqNo=3  
 25 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:4  
 54 Repeated in SeqNo=4  
 15 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:5  
 54 Repeated in SeqNo=5  
 99 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:6  
 54 Repeated in SeqNo=6  
 37 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:7  
 54 Repeated in SeqNo=7  
 77 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:8  
 54 Repeated in SeqNo=8  
 79 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:9  
 54 Repeated in SeqNo=9  
 063 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:10  
 54 Repeated in SeqNo=10  
 269 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:11  
 54 Repeated in SeqNo=11  
 379 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:12  
 54 Repeated in SeqNo=12  
 545 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:13  
 54 Repeated in SeqNo=13  
 625 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:14  
 54 Repeated in SeqNo=14  
 715 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:15  
 54 Repeated in SeqNo=15  
 825 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:16  
 54 Repeated in SeqNo=16  
 937 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:17  
 54 Repeated in SeqNo=17  
 027 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:18  
 54 Repeated in SeqNo=18  
 609 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:19  
 54 Repeated in SeqNo=19  
 693 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:20  
 54 Repeated in SeqNo=20  
 805 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:21  
 54 Repeated in SeqNo=21  
 897 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:22  
 54 Repeated in SeqNo=22  
 983 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:23

## VERIFICATION SUMMARY

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Input Set : C:\WINNT\Profiles\guest\Desktop\PTO.IN.txt

Output Set: N:\CRF4\10242003\J679062.raw

54 Repeated in SeqNo=23

069 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:24

54 Repeated in SeqNo=24

161 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:25

54 Repeated in SeqNo=25

438 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:2100

41 Repeated in SeqNo=404

41 Repeated in SeqNo=405

41 Repeated in SeqNo=520

41 Repeated in SeqNo=521

5043 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:674,Line#:35041

5056 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:675,Line#:35054

5069 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:676,Line#:35067

5082 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:677,Line#:35080

5095 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:678,Line#:35093

5108 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:679,Line#:35106

5121 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:680,Line#:35119

5134 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:681,Line#:35132

5147 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:682,Line#:35145

5160 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:683,Line#:35158

5173 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:684,Line#:35171

5186 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:685,Line#:35184

5199 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:686,Line#:35197

5212 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:687,Line#:35210

5225 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:688,Line#:35223

5238 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:689,Line#:35236

5251 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:690,Line#:35249

5264 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:691,Line#:35262

5277 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:692,Line#:35275

5290 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:693,Line#:35288

5303 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:694,Line#:35301

5316 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:695,Line#:35314

5329 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:696,Line#:35327

5342 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:697,Line#:35340

5355 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:698,Line#:35353

5368 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:699,Line#:35366

5381 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:700,Line#:35379

5394 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:701,Line#:35392

5407 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:702,Line#:35405

5420 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:703,Line#:35418

5433 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:704,Line#:35431

5446 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:705,Line#:35444

5459 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:706,Line#:35457

5472 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:707,Line#:35470

5485 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:708,Line#:35483

5498 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:709,Line#:35496

5511 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:710,Line#:35509

5524 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:711,Line#:35522

5537 M:258 W: Mandatory Feature missing, &lt;223&gt; Blank for SEQ#:712,Line#:35535

## VERIFICATION SUMMARY

DATE: 10/24/2003

PATENT APPLICATION: US/10/679,062

TIME: 15:06:25

Input Set : C:\WINNT\Profiles\guest\Desktop\PTO.LN.txt

Output Set: N:\CRF4\10242003\J679062.raw

5550 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:713,Line#:35548  
5563 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:714,Line#:35561  
5576 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:715,Line#:35574  
5589 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:716,Line#:35587  
5602 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:717,Line#:35600  
5615 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:718,Line#:35613  
5628 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:719,Line#:35626  
5641 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:720,Line#:35639  
5654 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:721,Line#:35652  
5667 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:722,Line#:35665  
5680 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:723,Line#:35678  
1359 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1361 M:283 W: Missing Blank Line separator, <400> field identifier  
1362 M:112 C: (48) String data converted to lower case,  
1371 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1373 M:283 W: Missing Blank Line separator, <400> field identifier  
12 Repeated in SeqNo=1161  
1383 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1385 M:283 W: Missing Blank Line separator, <400> field identifier  
12 Repeated in SeqNo=1162  
1395 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1397 M:283 W: Missing Blank Line separator, <400> field identifier  
12 Repeated in SeqNo=1163  
1407 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1409 M:283 W: Missing Blank Line separator, <400> field identifier  
12 Repeated in SeqNo=1164  
1419 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1421 M:283 W: Missing Blank Line separator, <400> field identifier  
12 Repeated in SeqNo=1165  
1431 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1433 M:283 W: Missing Blank Line separator, <400> field identifier  
12 Repeated in SeqNo=1166  
1443 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1445 M:283 W: Missing Blank Line separator, <400> field identifier  
12 Repeated in SeqNo=1167  
1455 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1457 M:283 W: Missing Blank Line separator, <400> field identifier  
12 Repeated in SeqNo=1168  
1467 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1469 M:283 W: Missing Blank Line separator, <400> field identifier  
12 Repeated in SeqNo=1169  
1479 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1481 M:283 W: Missing Blank Line separator, <400> field identifier  
12 Repeated in SeqNo=1170  
1491 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1493 M:283 W: Missing Blank Line separator, <400> field identifier  
12 Repeated in SeqNo=1171  
1503 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1505 M:283 W: Missing Blank Line separator, <400> field identifier

**VERIFICATION SUMMARY**

DATE: 10/24/2003

PATENT APPLICATION: US/10/679,062

TIME: 15:06:25

Input Set : C:\WINNT\Profiles\guest\Desktop\PTO.LN.txt

Output Set: N:\CRF4\10242003\J679062.raw

12 Repeated in SeqNo=1172

1515 M:256 W: Invalid Numeric Header Field, &lt;220&gt; has non-blank data

1517 M:283 W: Missing Blank Line separator, &lt;400&gt; field identifier

12 Repeated in SeqNo=1173

1527 M:256 W: Invalid Numeric Header Field, &lt;220&gt; has non-blank data

1529 M:283 W: Missing Blank Line separator, &lt;400&gt; field identifier

12 Repeated in SeqNo=1174

1539 M:256 W: Invalid Numeric Header Field, &lt;220&gt; has non-blank data

1541 M:283 W: Missing Blank Line separator, &lt;400&gt; field identifier

12 Repeated in SeqNo=1175

1551 M:256 W: Invalid Numeric Header Field, &lt;220&gt; has non-blank data

1553 M:283 W: Missing Blank Line separator, &lt;400&gt; field identifier

12 Repeated in SeqNo=1176

1563 M:256 W: Invalid Numeric Header Field, &lt;220&gt; has non-blank data

1565 M:283 W: Missing Blank Line separator, &lt;400&gt; field identifier

12 Repeated in SeqNo=1177

1575 M:256 W: Invalid Numeric Header Field, &lt;220&gt; has non-blank data

1577 M:283 W: Missing Blank Line separator, &lt;400&gt; field identifier

12 Repeated in SeqNo=1178

1587 M:256 W: Invalid Numeric Header Field, &lt;220&gt; has non-blank data

1589 M:283 W: Missing Blank Line separator, &lt;400&gt; field identifier

12 Repeated in SeqNo=1179

1599 M:256 W: Invalid Numeric Header Field, &lt;220&gt; has non-blank data

1601 M:283 W: Missing Blank Line separator, &lt;400&gt; field identifier

12 Repeated in SeqNo=1180

1611 M:256 W: Invalid Numeric Header Field, &lt;220&gt; has non-blank data

1613 M:283 W: Missing Blank Line separator, &lt;400&gt; field identifier

12 Repeated in SeqNo=1181

1623 M:256 W: Invalid Numeric Header Field, &lt;220&gt; has non-blank data

1625 M:283 W: Missing Blank Line separator, &lt;400&gt; field identifier

12 Repeated in SeqNo=1182

1635 M:256 W: Invalid Numeric Header Field, &lt;220&gt; has non-blank data

1637 M:283 W: Missing Blank Line separator, &lt;400&gt; field identifier

12 Repeated in SeqNo=1183

1647 M:256 W: Invalid Numeric Header Field, &lt;220&gt; has non-blank data

1649 M:283 W: Missing Blank Line separator, &lt;400&gt; field identifier

12 Repeated in SeqNo=1184

1659 M:256 W: Invalid Numeric Header Field, &lt;220&gt; has non-blank data

1661 M:283 W: Missing Blank Line separator, &lt;400&gt; field identifier

12 Repeated in SeqNo=1185

1671 M:256 W: Invalid Numeric Header Field, &lt;220&gt; has non-blank data

1673 M:283 W: Missing Blank Line separator, &lt;400&gt; field identifier

12 Repeated in SeqNo=1186

1683 M:256 W: Invalid Numeric Header Field, &lt;220&gt; has non-blank data

1685 M:283 W: Missing Blank Line separator, &lt;400&gt; field identifier

12 Repeated in SeqNo=1187

1695 M:256 W: Invalid Numeric Header Field, &lt;220&gt; has non-blank data

1697 M:283 W: Missing Blank Line separator, &lt;400&gt; field identifier

12 Repeated in SeqNo=1188

## VERIFICATION SUMMARY

DATE: 10/24/2003

PATENT APPLICATION: US/10/679,062

TIME: 15:06:25

Input Set : C:\WINNT\Profiles\guest\Desktop\PTO.LN.txt

Output Set: N:\CRF4\10242003\J679062.raw

1707 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1709 M:283 W: Missing Blank Line separator, <400> field identifier  
12 Repeated in SeqNo=1189  
1719 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1721 M:283 W: Missing Blank Line separator, <400> field identifier  
12 Repeated in SeqNo=1190  
1731 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1733 M:283 W: Missing Blank Line separator, <400> field identifier  
12 Repeated in SeqNo=1191  
1743 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1745 M:283 W: Missing Blank Line separator, <400> field identifier  
12 Repeated in SeqNo=1192  
1755 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1757 M:283 W: Missing Blank Line separator, <400> field identifier  
12 Repeated in SeqNo=1193  
1767 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1769 M:283 W: Missing Blank Line separator, <400> field identifier  
12 Repeated in SeqNo=1194  
1779 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1781 M:283 W: Missing Blank Line separator, <400> field identifier  
12 Repeated in SeqNo=1195  
1791 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1793 M:283 W: Missing Blank Line separator, <400> field identifier  
12 Repeated in SeqNo=1196  
1803 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1805 M:283 W: Missing Blank Line separator, <400> field identifier  
12 Repeated in SeqNo=1197  
1815 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1817 M:283 W: Missing Blank Line separator, <400> field identifier  
12 Repeated in SeqNo=1198  
1828 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1830 M:283 W: Missing Blank Line separator, <400> field identifier  
12 Repeated in SeqNo=1199  
1840 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1842 M:283 W: Missing Blank Line separator, <400> field identifier  
12 Repeated in SeqNo=1200  
1852 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1854 M:283 W: Missing Blank Line separator, <400> field identifier  
12 Repeated in SeqNo=1201  
1864 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1866 M:283 W: Missing Blank Line separator, <400> field identifier  
12 Repeated in SeqNo=1202  
1876 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1878 M:283 W: Missing Blank Line separator, <400> field identifier  
12 Repeated in SeqNo=1203  
1888 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
1890 M:283 W: Missing Blank Line separator, <400> field identifier  
12 Repeated in SeqNo=1204  
1900 M:256 W: Invalid Numeric Header Field, <220> has non-blank data